RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: _10/574,786_
Source: _1FwP_
Date Processed by STIC: _5/5/06_

ENTERED

CRF Errors Edited by the STIC Systems Branch

Serial Number: _10/574,786_   CRF Edit Date: _5/5/06_
                                                      Edited by: _JL_

____ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

____ Corrected the SEQ ID NO. Sequence numbers edited were:

_____

____ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

_____

_✓_ Deleted: _✓_ invalid beginning/end-of-file text ; ___ page numbers

____ Inserted mandatory headings/numeric identifiers, specifically:

_____

____ Moved responses to same line as heading/numeric identifier, specifically:

_____

____ Other:

_____
_____
_____

IFWP

RAW SEQUENCE LISTING DATE: 05/05/2006
PATENT APPLICATION: US/10/574,786 TIME: 16:36:25

Input Set : **A:\PTO.AMC.txt**
Output Set: **N:\CRF4\05052006\J574786.raw**

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    3 <110> APPLICANT: Bayer HealthCare AG
    5 <120> TITLE OF INVENTION: Diagnostics and Therapeutics for Diseases Associated with
Mosaic Serine
    6        Protease (MSP)
    8 <130> FILE REFERENCE: BHC 03 01 007
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/574,786
C--> 10 <141> CURRENT FILING DATE: 2006-04-06
   10 <160> NUMBER OF SEQ ID NOS: 5
   12 <170> SOFTWARE: PatentIn version 3.1
   14 <210> SEQ ID NO: 1
   15 <211> LENGTH: 2380
   16 <212> TYPE: DNA
   17 <213> ORGANISM: Homo sapiens
   19 <400> SEQUENCE: 1
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   21 cctggaggac tcttcccctc agagaccatg gagagggaca gccacgggaa tgcatctcca     120
   22 gcaagaacac cttcagctgg agcatctcca gcccaggcat ctccagctgg acacctcca      180
   23 ggccgggcat ctccagccca ggcatctcca gcccaggcat ctccagctgg acacctccg      240
   24 ggccgggcat ctccagccca ggcatctcca gctggtacac ctccaggccg ggcatctcca     300
   25 ggccgggcat ctccagccca ggcatctcca gcccgggcat ctccggctct ggcatcactt     360
   26 tccaggtcct catccggcag gtcatcatcc gccaggtcag cctcggtgac aacctcccca     420
   27 accagagtgt accttgttag agcaacacca gtgggggctg tacccatccg atcatctcct     480
   28 gccaggtcag caccagcaac cagggccacc agggagagcc caggtacgag cctgcccaag     540
   29 ttcacctggc gggagggcca gaagcagcta ccgctcatcg ggtgcgtgct cctcctcatt     600
   30 gccctggtgg tttcgctcat catcctcttc cagttctggc agggccacac agggatcagg     660
   31 cacaaggagc agagggagag ctgtcccaag cacgctgttc gctgtgacgg ggtggtggac     720
   32 tgcaagctga agagtgacga gctgggctgc gtgaggtttg actgggacaa gtctctgctt     780
   33 aaaatctact ctgggtcctc ccatcagtgg cttcccatct gtagcagcaa ctggaatgac     840
   34 tcctactcag agaagacctg ccagcagctg ggtttcgaga gtgctcaccg gacaaccgag     900
   35 gttgcccaca gggattttgc caacagcttc tcaatcttga gatacaactc caccatccag     960
   36 gaaagcctcc acaggtctga atgcccttcc cagcggtata tctccctcca gtgttcccac    1020
   37 tgcggactga gggccatgac cgggcggatc gtgggagggg cgctggcctc ggatagcaag    1080
   38 tggccttggc aagtgagtct gcacttcggc accacccaca tctgtggagg cacgctcatt    1140
   39 gacgcccagt gggtgctcac tgccgcccac tgcttcttcg tgacccggga gaaggtcctg    1200
   40 gagggctgga aggtgtacgc gggcaccagc aacctgcacc agttgcctga ggcagcctcc    1260
   41 attgccgaga tcatcatcaa cagcaattac accgatgagg aggacgacta tgacatcgcc    1320
   42 ctcatgcggc tgtccaagcc cctgaccctg tccgctcaca tccaccctgc ttgcctcccc    1380
   43 atgcatggac agacctttag cctcaatgag acctgctgga tcacaggctt tggcaagacc    1440
   44 agggagacag atgacaagac atcccccttc ctccgggagg tgcaggtcaa tctcatcgac    1500
   45 ttcaagaaat gcaatgacta cttggtctat gacagttacc ttaccccaag gatgatgtgt    1560
   46 gctggggacc ttcgtggggg cagagactcc tgccagggag acagcggggg gcctcttgtc    1620
   47 tgtgagcaga caaccgctg gtacctggca ggtgtcacca gctggggcac aggctgtggc    1680
   48 cagagaaaca aacctggtgt gtacaccaaa gtgacagaag ttcttccctg gatttacagc    1740
   49 aagatggagg taagatccct gcagcaggac actgcaccca gcaggctggg aacttcctca    1800
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RAW SEQUENCE LISTING   DATE: 05/05/2006
PATENT APPLICATION: US/10/574,786   TIME: 16:36:25

Input Set : **A:\PTO.AMC.txt**
Output Set: **N:\CRF4\05052006\J574786.raw**

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50 ggtggggacc ctggaggagc acccagggtg taggcagagg tcccctcagc gtccccatat  1860
51 tcggggggtg ttctggacag ggtcaaatgt gatgcctggg gtcaatccca gctgtctgtg  1920
52 tttctttccc tgcttttctt ccctcagaac agagctcagc gggttgaaaa agggtggacc  1980
53 tacaggccag gcaggcagtt gctgggcaga tgttctccca gaagtatttt tttgtgtaag  2040
54 gttgcaatgg actttgaaaa cgtttcagtt tctgcagagg attttgtgat agtctttgtt  2100
55 atcaagcatt tatgcatggg aatccgctct tcatggcctt tcccagctct gtttgtttta  2160
56 gtcttttga ttttctttt gttgttgttg ttgtcttttt ttaaaaacac aagtgactcc  2220
57 attttaactc tgacaacttt cacagctgtc accagaatgc tccctgagaa ctaccattct  2280
58 ttcccttttcc cacttaaaat atttcatcag aacctcacca ctatcataaa agagtataaa  2340
59 gtaataaaat aataaaaagc gaaaaaaaaa aaaaaaaaaa                        2380
61 <210> SEQ ID NO: 2
62 <211> LENGTH: 581
63 <212> TYPE: PRT
64 <213> ORGANISM: Homo sapiens
66 <400> SEQUENCE: 2
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68 1               5                   10                  15
69 Ala Gly Ala Ser Pro Ala Gln Ala Ser Pro Ala Gly Thr Pro Pro Gly
70              20                  25                  30
71 Arg Ala Ser Pro Ala Gln Ala Ser Pro Ala Gln Ala Ser Pro Ala Gly
72          35                  40                  45
73 Thr Pro Pro Gly Arg Ala Ser Pro Ala Gln Ala Ser Pro Ala Gly Thr
74      50                  55                  60
75 Pro Pro Gly Arg Ala Ser Pro Gly Arg Ala Ser Pro Ala Gln Ala Ser
76 65                  70                  75                  80
77 Pro Ala Arg Ala Ser Pro Ala Leu Ala Ser Leu Ser Arg Ser Ser Ser
78                  85                  90                  95
79 Gly Arg Ser Ser Ser Ala Arg Ser Ala Ser Val Thr Thr Ser Pro Thr
80              100                 105                 110
81 Arg Val Tyr Leu Val Arg Ala Thr Pro Val Gly Ala Val Pro Ile Arg
82          115                 120                 125
83 Ser Ser Pro Ala Arg Ser Ala Pro Ala Thr Arg Ala Thr Arg Glu Ser
84      130                 135                 140
85 Pro Gly Thr Ser Leu Pro Lys Phe Thr Trp Arg Glu Gly Gln Lys Gln
86 145                 150                 155                 160
87 Leu Pro Leu Ile Gly Cys Val Leu Leu Leu Ile Ala Leu Val Val Ser
88                  165                 170                 175
89 Leu Ile Ile Leu Phe Gln Phe Trp Gln Gly His Thr Gly Ile Arg His
90              180                 185                 190
91 Lys Glu Gln Arg Glu Ser Cys Pro Lys His Ala Val Arg Cys Asp Gly
92          195                 200                 205
93 Val Val Asp Cys Lys Leu Lys Ser Asp Glu Leu Gly Cys Val Arg Phe
94      210                 215                 220
95 Asp Trp Asp Lys Ser Leu Leu Lys Ile Tyr Ser Gly Ser Ser His Gln
96 225                 230                 235                 240
97 Trp Leu Pro Ile Cys Ser Ser Asn Trp Asn Asp Ser Tyr Ser Glu Lys
98                  245                 250                 255
99 Thr Cys Arg Gln Leu Gly Phe Glu Ser Ala His Arg Thr Thr Glu Val
100             260                 265                 270
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Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF4\05052006\J574786.raw

101 Ala His Arg Asp Phe Ala Asn Ser Phe Ser Ile Leu Arg Tyr Asn Ser
102         275                 280                 285
103 Thr Ile Gln Glu Ser Leu His Arg Ser His Cys Pro Ser Gln Arg Tyr
104     290                 295                 300
105 Ile Ser Leu Gln Cys Ser His Cys Gly Leu Arg Ala Met Thr Gly Arg
106 305                 310                 315                 320
107 Ile Val Gly Gly Ala Leu Ala Ser Asp Ser Lys Trp Pro Trp Gln Val
108         325                 330                 335
109 Ser Leu His Phe Gly Thr Thr His Ile Cys Gly Gly Thr Leu Ile Asp
110         340                 345                 350
111 Ala Gln Trp Val Leu Thr Ala Ala His Cys Phe Phe Val Thr Arg Glu
112         355                 360                 365
113 Lys Val Leu Glu Gly Trp Lys Val Tyr Ala Gly Thr Ser Asn Leu His
114     370                 375                 380
115 Gln Leu Pro Glu Ala Ala Ser Ile Ala Glu Ile Ile Ile Asn Ser Asn
116 385                 390                 395                 400
117 Tyr Thr Asp Glu Glu Asp Asp Tyr Asp Ile Ala Leu Met Arg Leu Ser
118                 405                 410                 415
119 Lys Pro Leu Thr Leu Ser Ala His Ile His Pro Ala Cys Leu Pro Met
120         420                 425                 430
121 His Gly Gln Thr Phe Ser Leu Asn Glu Thr Cys Trp Ile Thr Gly Phe
122         435                 440                 445
123 Gly Lys Thr Arg Glu Thr Asp Asp Lys Thr Ser Pro Phe Leu Arg Glu
124     450                 455                 460
125 Val Gln Val Asn Leu Ile Asp Phe Lys Lys Cys Asn Asp Tyr Leu Val
126 465                 470                 475                 480
127 Tyr Asp Ser Tyr Leu Thr Pro Arg Met Met Cys Ala Gly Asp Leu His
128                 485                 490                 495
129 Gly Gly Arg Asp Ser Cys Gln Gly Asp Ser Gly Gly Pro Leu Val Cys
130         500                 505                 510
131 Glu Gln Asn Asn Arg Trp Tyr Leu Ala Gly Val Thr Ser Trp Gly Thr
132         515                 520                 525
133 Gly Cys Gly Gln Arg Asn Lys Pro Gly Val Tyr Thr Lys Val Thr Glu
134     530                 535                 540
135 Val Leu Pro Trp Ile Tyr Ser Lys Met Glu Val Arg Ser Leu Gln Gln
136 545                 550                 555                 560
137 Asp Thr Ala Pro Ser Arg Leu Gly Thr Ser Ser Gly Gly Asp Pro Gly
138                 565                 570                 575
139 Gly Ala Pro Arg Val
140             580
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143 <211> LENGTH: 20
144 <212> TYPE: DNA
145 <213> ORGANISM: artificial sequence
147 <220> FEATURE:
148 <223> OTHER INFORMATION: forward primer
150 <400> SEQUENCE: 3
151 gcctccacag gtctgaatgc                                        20
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RAW SEQUENCE LISTING   DATE: 05/05/2006
PATENT APPLICATION: US/10/574,786   TIME: 16:36:25

                Input Set : A:\PTO.AMC.txt
                Output Set: N:\CRF4\05052006\J574786.raw

154 <211> LENGTH: 19
155 <212> TYPE: DNA
156 <213> ORGANISM: artificial sequence
158 <220> FEATURE:
159 <223> OTHER INFORMATION: reverse primer
161 <400> SEQUENCE: 4
162 cagtccgcag tgggaacac   19
164 <210> SEQ ID NO: 5
165 <211> LENGTH: 23
166 <212> TYPE: DNA
167 <213> ORGANISM: artificial sequence
169 <220> FEATURE:
170 <223> OTHER INFORMATION: probe
172 <400> SEQUENCE: 5
173 cttcccagcg gtatatctcc ctc   23

VERIFICATION SUMMARY   DATE: 05/05/2006
PATENT APPLICATION: **US/10/574,786**   TIME: 16:36:26

Input Set : **A:\PTO.AMC.txt**
Output Set: **N:\CRF4\05052006\J574786.raw**

L:10 M:270 C: Current Application Number differs, Replaced Current Application No
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date

Raw Sequence Listing before editing (for reference only)

RAW SEQUENCE LISTING   DATE: 05/04/2006
PATENT APPLICATION: US/10/574,786   TIME: 14:06:30

Input Set : A:\pto.da.txt
Output Set: N:\CRF4\05042006\J574786.raw

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   3 <110> APPLICANT: Bayer HealthCare AG
   5 <120> TITLE OF INVENTION: Diagnostics and Therapeutics for Diseases Associated with
Mosaic Serine
   6        Protease (MSP)
   8 <130> FILE REFERENCE: BHC 03 01 007
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/574,786
C--> 10 <141> CURRENT FILING DATE: 2006-04-06
  10 <160> NUMBER OF SEQ ID NOS: 5
  12 <170> SOFTWARE: PatentIn version 3.1
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ERRORED SEQUENCES

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  164 <210> SEQ ID NO: 5
  165 <211> LENGTH: 23
  166 <212> TYPE: DNA
  167 <213> ORGANISM: artificial sequence
  169 <220> FEATURE:
  170 <223> OTHER INFORMATION: probe
  172 <400> SEQUENCE: 5
  173 cttcccagcg gtatatctcc ctc                                    23
E--> 176 BHC 03 1 007-Foreign Countries
W--> 178 - 4 -
E--> 181 BHC 03 1 007-Foreign Countries
W--> 183 - 1 -
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delete

VERIFICATION SUMMARY
PATENT APPLICATION: **US/10/574,786**

DATE: 05/04/2006
TIME: 14:06:31

Input Set : **A:\pto.da.txt**
Output Set: **N:\CRF4\05042006\J574786.raw**

L:10 M:270 C: Current Application Number differs, Replaced Current Application No
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:176 M:334 E: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:5
L:178 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:5
L:181 M:334 E: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:5
L:183 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:5